NC/QC/YPD/2019-20/W11-MM-C1 **Date: 09-12-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**268min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.10%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.07 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.64 N/Sq mm**	Shall not be less than 27 N/Sqmm

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For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NC/QC/YPD/2019-20/W11-MM-PCC1 **Date: 09-12-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**62.95**	0 -20	30- 70
10mm	**19.40**	0 -5	10- 35
4.75mm	**3.70**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.85**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.05**	60-95	75-100	85-100	
01.18	**74.60**	30-70	55-90	75-100	
600.mic	**43.85**	15-34	35-59	60-79	
300.mic	**19.40**	5-20	8-30	12-40	
150.mic	**6.30**	0-10	0-10	0-10	

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone, Bangalore

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NC/QC/YPD/2019-20/W11-MM-C2 **Date: 09-12-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.97 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.04 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.39 N/Sq mm**	Shall not be less than 27 N/Sqmm

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For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NC/QC/YPD/2019-20/W11-MM-FA1 **Date: 09-12-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.65**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.10**	60-95	75-100	85-100	
01.18	**79.25**	30-70	55-90	75-100	
600. mic	**43.90**	15.34	35-59	60-79	
300.mic	**17.40**	5-20	8-30	12-40	
150.mic	**8.55**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.97 %**	-----
2	Silt Content	----	**0.62 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

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For Newzen Consultants Bangalor

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NC/QC/YPD/2019-20/W11-MM-CA1 **Date: 09-12-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.20	85-100	90 - 100
10 mm	49.55	0 - 20	25 - 55
4.75 mm	3.95	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.91 %	Not to exceed 25 %
2.	Crushing value	28.56 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NC/QC/YPD/2019-20/W11-MM-CB1 **Date: 18-12-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-12-19	18-12-19	07	22500	305	13.56	**13.19**
	002	"	"	"	"	300	13.33	
	003	"	"	"	"	285	12.67	

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 02

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NC/QC/YPD/2019-20/W11-MM-CB2

Date: 20-12-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-12-19	20-12-19	07	22500	300	13.33	**13.41**
	002	"	"	"	"	310	13.78	
	003	"	"	"	"	295	13.11	

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For Newzen Consultants Bangalore
Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 64.

NC/QC/YPD/2019-20/W11-MM-CB1A

Date: 08-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-12-19	08-01-20	29	22500	400	17.78	**17.93**
	002	"	"	"	"	415	18.44	
	003	"	"	"	"	395	17.56	

For Newzen Consultants Bangalor

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/YPD/2019-20/W11-MM-CB2A

Date: 10-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Maintenance of Cremitorium Burial ground and office maintenance in Ward No.11 Kuvempunagara.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D.V. Kumar, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-12-19	10-01-20	28	22500	390	17.33	**17.78**
	002	"	"	"	"	415	18.44	
	003	"	"	"	"	395	17.56	

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
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Yelahanka Zone
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